

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002280**Date Inspected:** 02-Dec-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Lift 3 West, Lift 1 East, Lift 2 East, Lift 1 West**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Lift 3 West**

Repairs to the Top Edge Plate and Transverse Weld Seam of the East Side plate were performed in accordance with the agreed upon procedure, Top Edge Plate areas received a second application of Interzinc 52 undercoat and the Side Plate was cleaned and the initial first coat of Interzinc 52 applied. Profile amplitude of base metal surfaces cleaned prior to application was 25-60um.

**Lift 1 West**

ZPMC personnel abrasive blasted to base metal and an SSPC SP-10 condition two (2) small locations at Panel Point #12.5 on an area adjacent to the Longitudinal Diaphragm approximately 2 square feet of surface area was observed for this work. ZPMC paint stock of Interzinc 22 was very low and they mixed a full kit to perform this work.

**Lift 2 East**

Surfaces of the NDT areas on the "F" Side Plate and Top Edge of the Top Plate were in process of cleaning operations for application of Interzinc 52 per the agreed upon method of repairs.

**Lift 1 East**

Transported into Blasting workshop #4 for repairs to damaged previously applied undercoats and top coated areas after Trial Assembly operations and fabrication repairs. Caltrans QA Lumley was informed by Caltrans QA Hernandez that MT testing remains incomplete.

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## SOURCE INSPECTION REPORT

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OBG 7DE

Internal undercoated surfaces were checked for Dry Film Thickness (DFT) verification. Excessive DFT was observed and repairs are required prior to re-inspection.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Peterson,Art	QA Reviewer

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